6AS6

SHARP-CUTOFF PENTODE

MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts
Current	0.175	amp

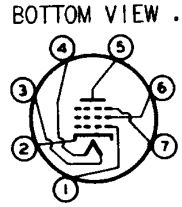
Direct Interelectrode Capacitances:

	Without External Shield	*With External Shield No.316*	
Grid No.1 to Plate	0.025 max.	0.02 max.	μμf
Input	3.9	4.0	μμf
Output	2.2	3.0	μμf
Grid No.1 to Grid No.3	0.15 max.	0.15 max.	μμf
Grid No.3 to Plate	0.7 max.	0.7 max.	μμf
Grid No.3 to All Other Electrodes	3.3	3.4	μμf

Mechanical:

Mounting Position	Any
Maximum Overall Length	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" ± 3/32"
Maximum Diameter	3/4"
Bulb	T-5-1/2
Base	Small-Button Miniature 7-Pin
Basing Designation for BOTTOM VIEW	$7CM_1$

Pin 1 - Grid No.1
Pin 2 - Cathode
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - Grid No.3

AMPLIFIER - Class A_1

Maximum Ratings, ***Design-Center Values*:**

PLATE VOLTAGE	180 max.	volts
GRID-No.3 VOLTAGE	27 max.	volts
GRID-No.2 VOLTAGE	140 max.	volts
CATHODE CURRENT	18 max.	ma
PLATE DISSIPATION	1.7 max.	watts
GRID-No.2 INPUT	0.75 max.	watt
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts
BULB TEMPERATURE (At hottest point on bulb surface)	120 max.	°C

Characteristics:

Plate Voltage	120	120	volts

FEB. 1, 1950

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TENTATIVE DATA

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SHARP-CUTOFF PENTODE

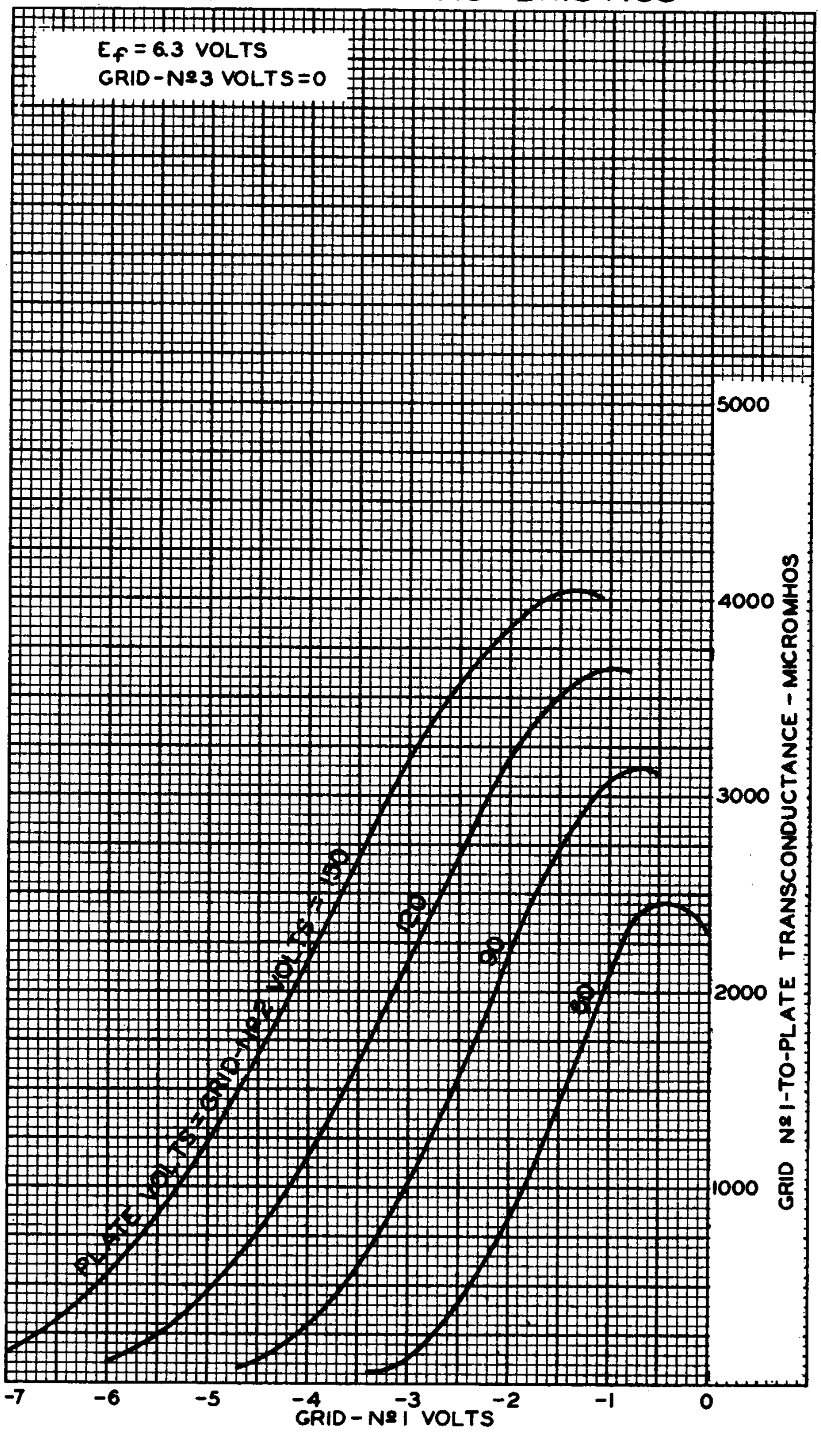
Grid-No.3 Voltage.	-3	0	volts
Grid-No.2 Voltage.	120	120	volts
Grid-No.1 Voltage.	-2	-2	volts
Plate Resistance (Approx.)	-	0.15	megohm
Transconductance, Grid No.1 to Plate. . . .	1850	3200	μmhos
Transconductance, Grid No.3 to Plate. . . .	810	470	μmhos
Plate Current.	3.6	5.2	ma
Max. Plate Current for Grid-No.1 Volts = -10. . . .	-	100	μamp
Max. Plate Current for Grid-No.3 Volts = -15. . . .	-	20	μamp
Grid-No.2 Current.	4.8	3.5	ma

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AVERAGE CHARACTERISTICS



NOV. 4, 1949

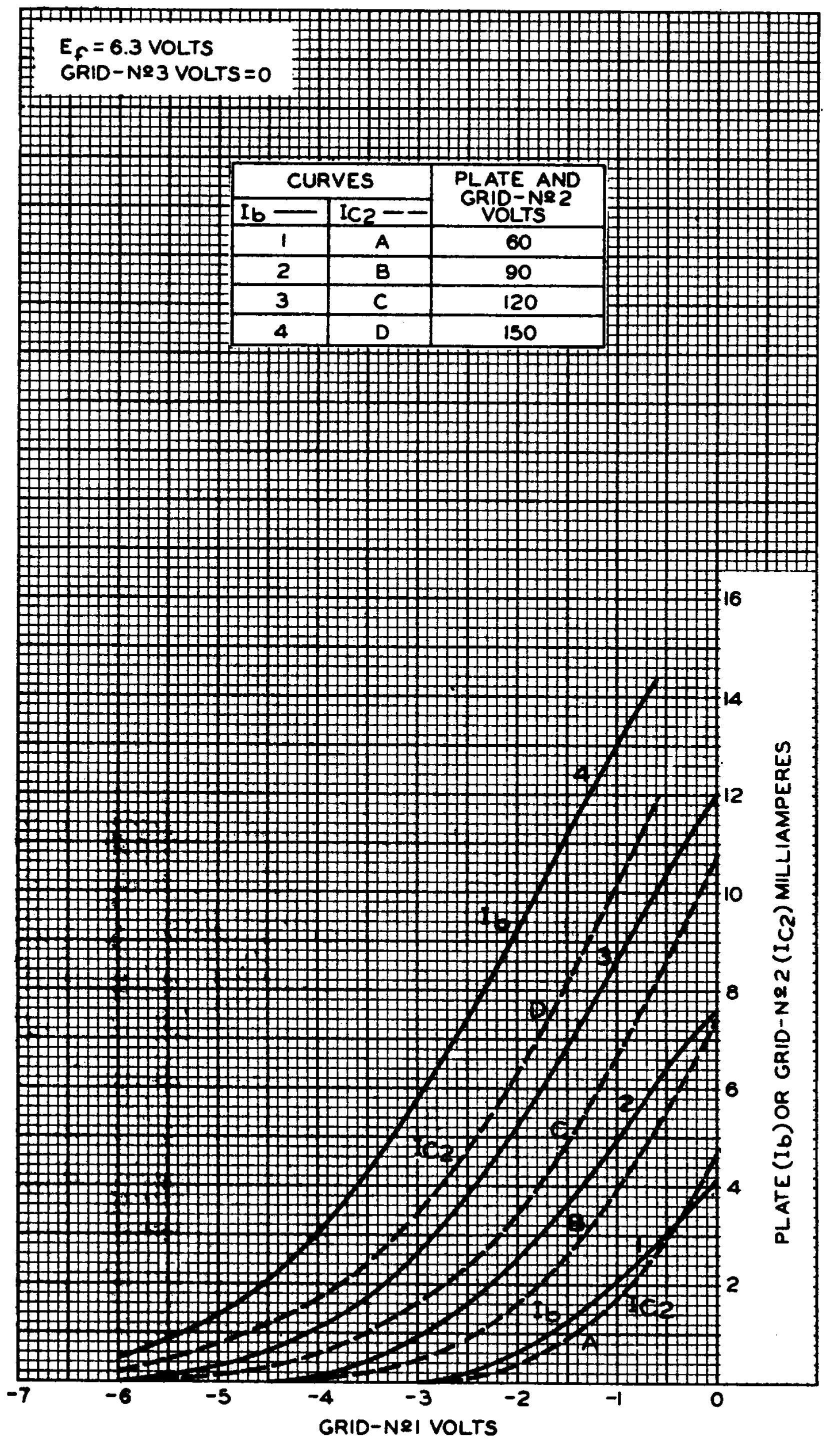
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AVERAGE CHARACTERISTICS

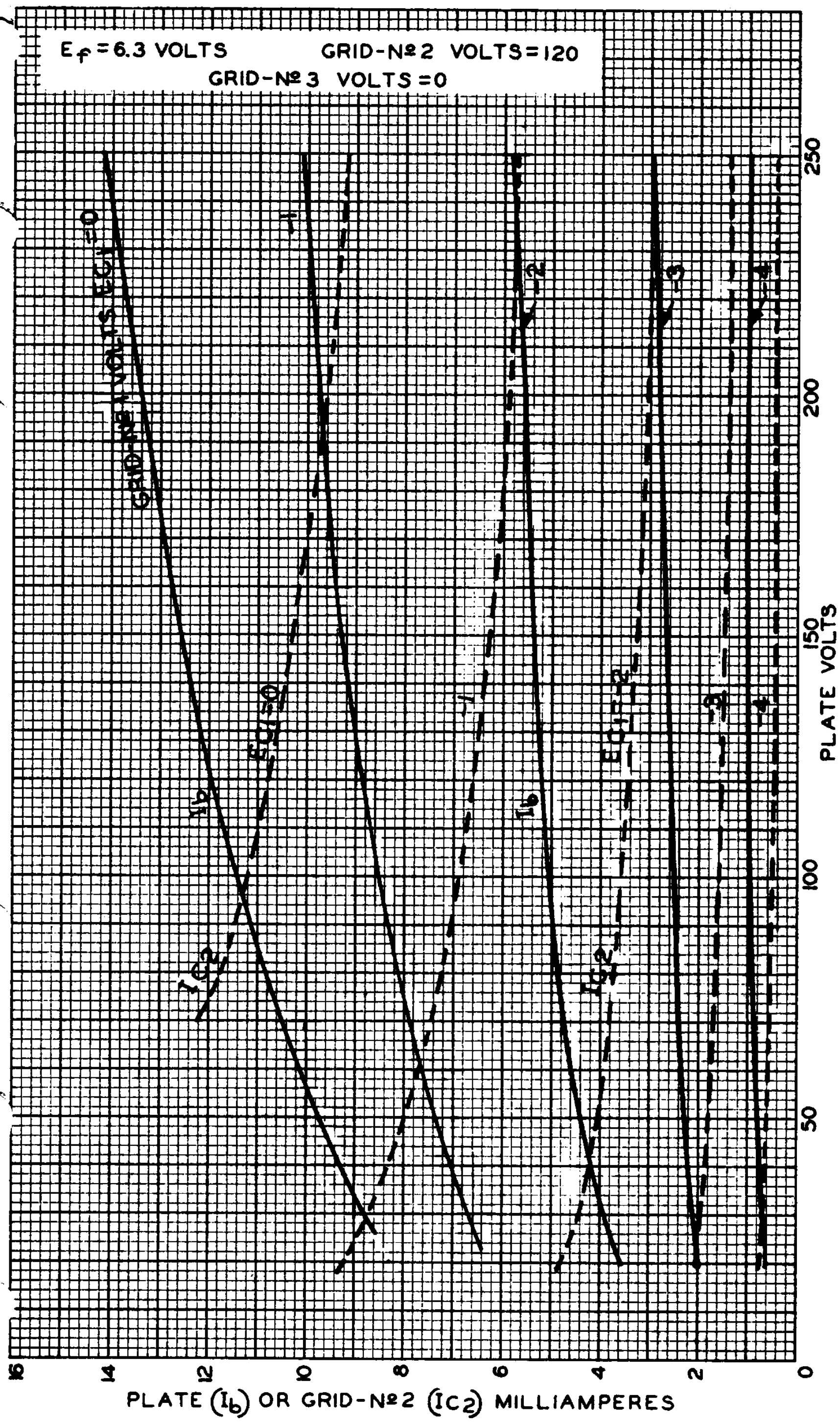


CURVES		PLATE AND GRID-Nº2 VOLTS
Ib ——	IC2 — —	
1	A	60
2	B	90
3	C	120
4	D	150

RCA

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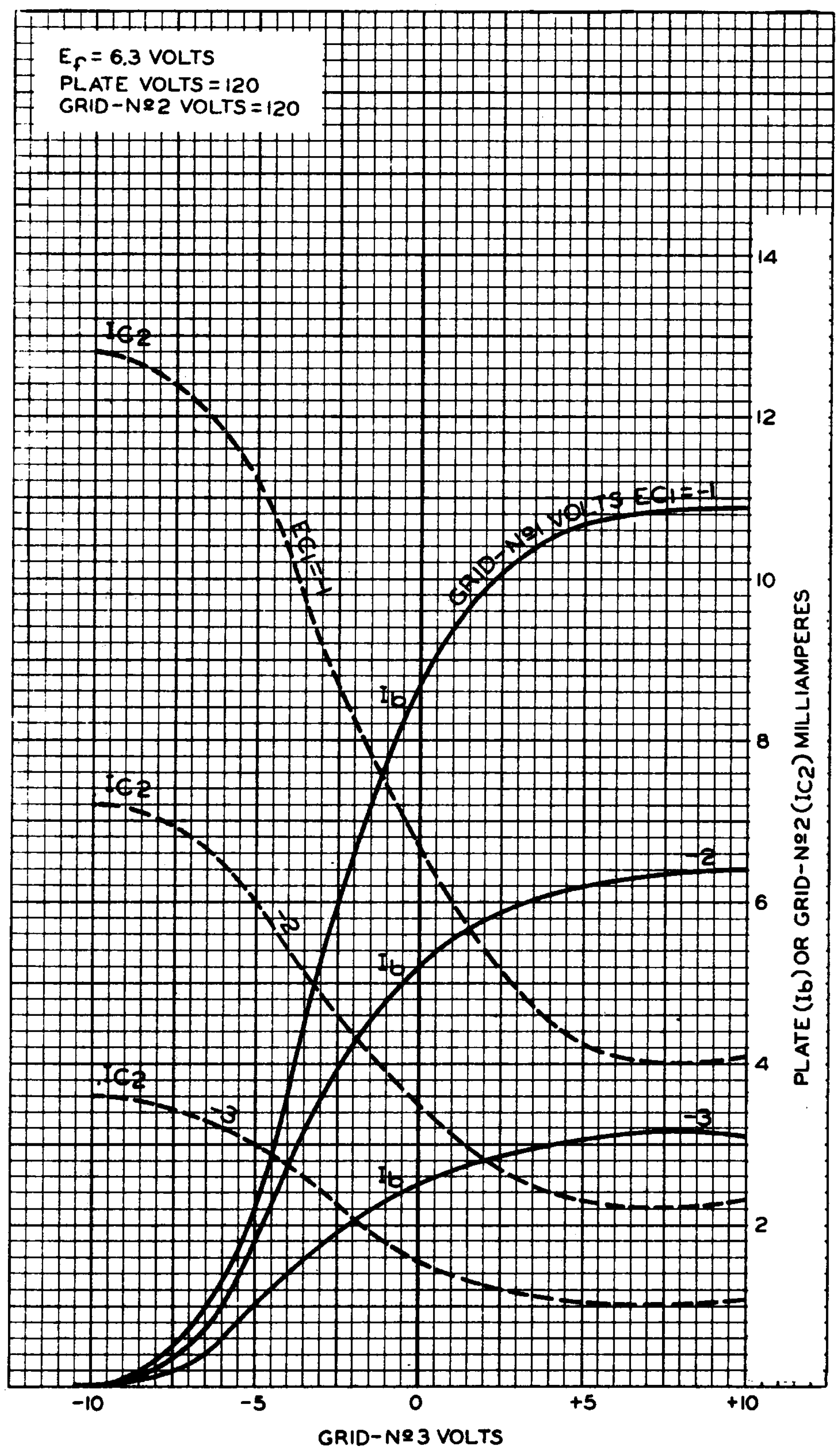
AVERAGE PLATE CHARACTERISTICS



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AVERAGE CHARACTERISTICS



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AVERAGE CHARACTERISTICS

